Journal of Hydrology, 127 (1991) 401–402
Elsevier Science Publishers B.V., Amsterdam

Contents

Research Papers

Groundwater flow patterns in the vicinity of underground openings in unsaturated rock
S.D. Vincent (Boise, ID, USA), R.E. Williams and G.L. Bloomsburg (Moscow, ID, USA) . . . 1

Evaluation of the runoff components on the slope of an open-cast mine by means of environmental isotopes ^{18}O and T
F. Buzek, J. Hanzlik (Prague, Czechoslovakia), M. Hrubý and P. Tryzna (Most, Czechoslovakia) . . . 23

Classification of storm profiles using crossing properties
N.T. Kottegoda and A.H.M. Kassim (Birmingham, UK) . . . 37

The turning bands method with the fast-Fourier transform as an aid to the determination of storm movement
N.T. Kottegoda and A.H.M. Kassim (Birmingham, UK) . . . 55

Steady, two-dimensional flow of ground water to a trench
A. Kacimov (Kazan, USSR). . . . 71

Geochemistry of dissolved inorganic carbon in a Coastal Plain aquifer. 1. Sulfate from confining beds as an oxidant in microbial CO_2 production
F.H. Chapelle and P.B. McMahon (Columbia, SC, USA) . . . 85

Geochemistry of dissolved inorganic carbon in a Coastal Plain aquifer. 2. Modeling carbon sources, sinks, and $\delta^{13}C$ evolution
P.B. McMahon and F.H. Chapelle (Columbia, SC, USA) . . . 109

Annual fluctuations of groundwater levels as a result of loading by surface moisture
G. van der Kamp and H. Maathuis (Saskatoon, Sask., Canada) . . . 137

Discrete linear models for runoff and sediment discharge from the Loess Plateau of China
G.-T. Wang, C. Guo, K.X. Huang (Beijing, China) and V.P. Singh (Baton Rouge, LA, USA) 153

Numerical analysis of groundwater recharge through stony soils using limited data
J.M.H. Hendrickx (Socorro, NM, USA), A.S. Khan (Quetta, Pakistan), M.H. Bannink (De Bilt, Netherlands), D. Birch (Swindon, UK) and C. Kidd (Liskeard, UK) . . . 173

Evaporation from a tropical lake: comparison of theory with direct measurements
K.J. Sene, J.H.C. Gash and D.D. McNeil (Wallingford, UK) . . . 193

Drawdown at a large-diameter observation well
A.G. Chachadi (Goa, India), G.C. Mishra and B.B.S. Singhal (Roorkee, India) . . . 219

Stochastic concomitance of water resources and needs
M. Domokos (Budapest, Hungary). . . . 235

Early hydrological response to intense forest thinning in southwestern Australia
J.K. Ruprecht, N.J. Schofield (Leederville, W.A., Australia), D.S. Crombie, G.L. Stoneman (Dwellingup, W.A., Australia) and R.A. Vertessy (Canberra, A.C.T., Australia. . . . 261

Modeling the erosion process over steep slopes: approximate analytical solutions
R.S. Govindaraju and M.L. Kavvas (Davis, CA, USA) . . . 279

Contributions to the solute and isotopic groundwater geochemistry, Antelope Island, Great Salt Lake, Utah
A.L. Mayo (Provo, UT, USA) and R.H. Klauk (Milwaukee, WI, USA). . . . 307

Denitrification in clayey till
J.I. Fujikawa (Lethbridge, Alb., Canada) and M.J. Hendry (Saskatoon, Sask., Canada) . . . 337

Hydrological impacts of hardwood plantation in lowland Britain: preliminary findings on interception at a forest edge. Black Wood, Hampshire, southern England
C. Neal, A.J. Robson, R.L. Hall, G. Ryland, T. Conway and M. Neal (Wallingford, UK). . 349

Geohydrologic, geochemical, and geologic controls on the occurrence of radon in ground water near Conifer, Colorado, USA
E. Lawrence, R. Wanty (Denver, CO, USA) and E. Poeter (Golden, CO, USA) . . . 367

Discussion
Estimating groundwater recharge using a surface watershed modelling approach — comment
F.I. Morton (Wakefield, Que., Canada) 387
Estimating groundwater recharge using a surface watershed modelling approach — reply
F.H.S. Chiew and T.A. McMahon (Melbourne, Vic., Australia) 393

Announcement 395

Guide for Authors 397